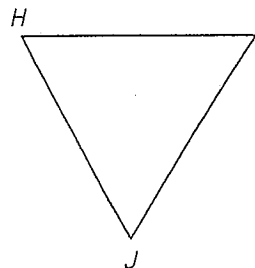


**LESSON**  
**26**
**Practice**

For use with pages 112–119

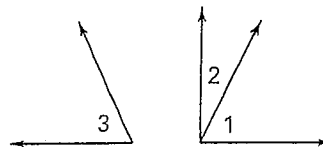
In Exercises 1–4, complete the proof.

1. GIVEN:
- $HI = 9$
- ,
- $IJ = 9$
- ,
- $\overline{IJ} \cong \overline{JH}$

PROVE:  $\overline{HI} \cong \overline{JH}$ 

Statements	Reasons
1. $HI = 9$	1. ?
2. $IJ = 9$	2. ?
3. $HI = IJ$	3. ?
4. ?	4. Definition of congruent segments
5. $\overline{IJ} \cong \overline{JH}$	5. ?
6. $\overline{HI} \cong \overline{JH}$	6. ?

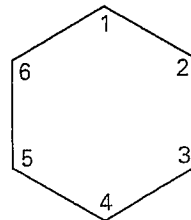
2. GIVEN:
- $\angle 3$
- and
- $\angle 2$
- are complementary.
- 
- $m\angle 1 + m\angle 2 = 90^\circ$

PROVE:  $\angle 3 \cong \angle 1$ 

Statements	Reasons
1. $\angle 3$ and $\angle 2$ are complementary.	1. ?
2. $m\angle 1 + m\angle 2 = 90^\circ$	2. ?
3. $m\angle 3 + m\angle 2 = 90^\circ$	3. ?
4. $m\angle 1 + m\angle 2 = m\angle 3 + m\angle 2$	4. ?
5. $m\angle 1 = m\angle 3$	5. ?
6. $\angle 1 \cong \angle 3$	6. ?

LESSON  
2.6**Practice** *continued*  
For use with pages 112–1193. GIVEN:  $AL = SK$ PROVE:  $AS = LK$ 

Statements	Reasons
1. $AL = SK$	1. ?
2. $LS = LS$	2. ?
3. $AL + LS = SK + LS$	3. ?
4. $AL + LS = AS$	4. ?
5. $SK + LS = LK$	5. ?
6. $AS = LK$	6. ?

4. GIVEN:  $m\angle 4 = 120^\circ$ ,  $\angle 2 \cong \angle 5$ ,  $\angle 4 \cong \angle 5$ PROVE:  $m\angle 2 = 120^\circ$ 

Statements	Reasons
1. $m\angle 4 = 120^\circ$ , $\angle 2 \cong \angle 5$ , $\angle 4 \cong \angle 5$	1. ?
2. $\angle 2 \cong \angle 4$	2. ?
3. ?	3. Definition of congruent angles
4. $m\angle 2 = 120^\circ$	4. ?

Name \_\_\_\_\_

Date \_\_\_\_\_

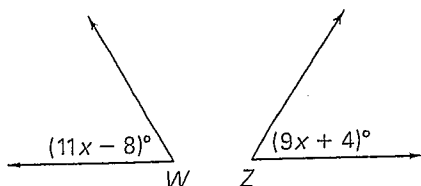
LESSON  
2.6

# Practice continued

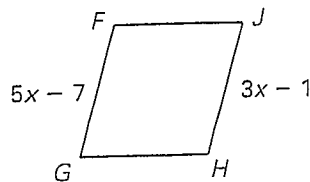
For use with pages 112-119

Solve for  $x$  using the given information. *Explain your steps.*

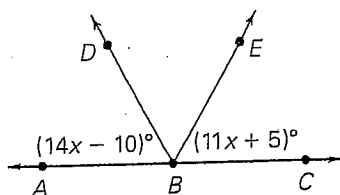
5.  $\angle W \cong \angle Z$



6.  $\overline{FG} \cong \overline{FJ}, \overline{FJ} \cong \overline{JH}$



7.  $\angle ABD \cong \angle DBE, \angle EBC \cong \angle DBE$



8.  $\overline{KP} \cong \overline{PN}, KP = 18$

